

UNCLASSIFIED

FY 2001 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2000

BUDGET ACTIVITY: 4

PROGRAM ELEMENT: 0603790N

PROJECT NUMBER: R2293

PROGRAM ELEMENT TITLE: NATO Research and Development

PROJECT TITLE: NATO Cooperative R&D

(U) COST: (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1999 ACTUAL	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
R2293									
NATO Cooperative Research and Development (R&D)									
	9,664	5,431	8,992	11,565	11,637	11,830	12,331	CONT.	CONT.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program implements the provisions of Title 10 U.S. Code, Section 2350a, Cooperative Research and Development (R&D) Projects: Allied Countries. The objective is to improve, through the application of emerging technologies, the conventional defense capabilities of the United States, the North Atlantic Treaty Organization (NATO), and U.S. major non-NATO allies. This program element only funds the U.S. equitable share of the cooperative R&D project and is only spent in the U.S. Projects are implemented with allied partners through international agreements that define the scope, cost and work sharing arrangements, management, contracting, security, data protection and third party transfers. The international agreements supported by this project are US Department of Defense and Department of the Navy signed commitments to joint projects with our allies. The projects jointly develop equipment to improve US and allied operational capabilities as well as achieve interoperability and standardization. Funds support all the R&D cost including the identification of cooperative opportunities and administration of the program. All funds are used to pay for the U.S. work share in the United States at U.S. Government and U.S. contractor's facilities. The planned program is shown below. The final program will be reported separately as required by Title 10 U.S. Code, Section 2350a.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under DEMONSTRATION & VALIDATION because it develops and integrates hardware for experimental tests related to specific ship or aircraft applications.

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Budget Item Justification
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(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

2. (U) FY 1999 ACCOMPLISHMENTS:

- (U) (\$1,000) Supported on-going work related to the U.S./United Kingdom Anti-Torpedo Torpedo cooperative Research and Development project.
- (U) (\$1,600) Supported on-going work related to the cooperative R&D program between the U.S. and United Kingdom for Trimaran Hull initiated with OSD funding.
- (U) (\$1,100) Supported on-going work on the U.S./Japanese Cooperative Material Project for Advanced Steel.
- (U) (\$2,500) Supported work on the Vector Project between the U.S. and Germany.
- (U) (\$ 756) Supported efforts on the High Speed Protocol Project with France.
- (U) (\$ 539) Supported work on the Unmanned Undersea Vehicle cooperative R&D project between the U.S. and France initiated with OSD funding.
- (U) (\$1,169) Supported on-going Navy work related to the U.S./United Kingdom development of the Intercooled Recuperated (ICR) Gas Turbine Engine.
- (U) (\$1,000) Supported Norwegian Mineclearing.

3. (U) FY 2000 PLAN:

- (U) (\$1,766) Support work on the Vector Project between the U.S. and Germany.
- (U) (\$ 373) Support Fiber Optic Bottom Mounted Acoustic Array.
- (U) (\$ 752) Support efforts on the Multilateral Memorandum of Understanding for Interoperable Network for Secure Communications.
- (U) (\$ 327) Support on-going work related to the U.S./United Kingdom Anti-Torpedo Torpedo cooperative R&D project.

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Budget Item Justification
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PROGRAM ELEMENT TITLE: NATO Research and Development

PROJECT TITLE: NATO Cooperative R&D

- (U) (\$ 650) Support on-going Navy efforts on the U.S./Japanese Cooperative Material Project for Advanced Steel initiated with OSD funding.
- (U) (\$ 373) Support work on the Unmanned Undersea Vehicle cooperative R&D project between the U.S. and France initiated with OSD funding.
- (U) (\$1,190) Support on-going work related to the cooperative R&D project between the U.S. and United Kingdom for Timaran Hull initiated with OSD funding

4. (U) FY 2001 PLAN:

- (U) (\$2,450) Support work on the Vector Project between the U.S. and Germany.
- (U) (\$1,942) Support efforts on the Multilateral Memorandum of Understanding for Interoperable Network for Secure Communications.
- (U) (\$1,400) Support work on the Allied Warfare Project between the U.S. and United Kingdom.
- (U) (\$ 700) Support Fiber Optic Bottom Mounted acoustic Array.
- (U) (\$1,100) Support work on the Six (6) Degrees of Freedom Ship Roll Project with Italy.
- (U) (\$1,400) Support work on the Network Centric Battlespace Management Project between the U.S. and United Kingdom

B. (U) PROGRAM CHANGE SUMMARY:

(U) FY 2000 President's Budget:	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) Appropriated Value:	8,852	5,461	9,053
(U) Adjustments from PRESBUDG:			
(U) Congressional Rescissions		-30	
(U) Execution Adjustment	868		

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Budget Item Justification
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(U) SBIR/STTR Adjustment	-15		
(U) Various Rate Adjustments	-41		
(U) NWCF Rate Adjustments			-54
(U) Strategic Source Adjustments			-7
(U) FY 2001 PRESUDG Budget Submission:	9,664	5,431	8,992

(U) CHANGE SUMMARY EXPLANATION:

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

C. (U) OTHER PROGRAM FUNDING SUMMARY: Not applicable.

(U) RELATED RDT&E:

(U) PE 0603790D (NATO Cooperative Research and Development)

(U) PE 0605853N (Management, Technical and International Support)

(U) PE 0605130D (Foreign Comparative Testing)

D. (U) SCHEDULE PROFILE: Not applicable.

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Budget Item Justification
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FY 2001 RDT&E,N PROGRAM ELEMENT/PROJECT COST BREAKDOWN

DATE: February 2000

BUDGET ACTIVITY: 4

PROGRAM ELEMENT: 0603790N

PROJECT NUMBER: R2293

PROGRAM ELEMENT TITLE: NATO Research and Development

PROJECT TITLE: NATO Cooperative R&D

A. (U) PROJECT COST BREAKDOWN: (\$ in thousands)

Project Cost Categories	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
a. Cooperative Research and Development	9,664	5,431	8,992

B. (U) BUDGET ACQUISITION HISTORY AND PLANNING INFORMATION:

PERFORMING ORGANIZATIONS

Contractor/ Government Performing <u>Activity</u>	Contract Method/ Fund Type <u>Vehicle</u>	Award/ Oblig <u>Date</u>	Perform Activity <u>EAC</u>	Project Office <u>EAC</u>	<u>FY 1999</u> <u>Actual</u>	<u>FY 2000</u> <u>Budget</u>	<u>FY 2001</u> <u>Budget</u>	<u>To</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
Product Development									
Westinghouse	C/CPAF	12/26/91			400	0	0	CONT.	CONT.
NSWC-CD	WX	1/31/97			1,610	180	550	CONT.	CONT.
Boeing					2,000	1,500	2,300		
Miscellaneous					5,654	3,751	6,142	CONT.	CONT.

Support and Management: Not applicable.

Test and Evaluation: Not applicable.

GOVERNMENT FURNISHED PROPERTY: Not applicable.

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PE/Project Cost Breakdown
(Exhibit R-3, page 5 of 6)

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FY 2001 RDT&E,N PROGRAM ELEMENT/PROJECT COST BREAKDOWN

DATE: February 2000

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PROGRAM ELEMENT: 0603790N

PROJECT NUMBER: R2293

PROGRAM ELEMENT TITLE: NATO Research and Development

PROJECT TITLE: NATO Cooperative R&D

	<u>FY 1999 Actual</u>	<u>FY 2000 Budget</u>	<u>FY 2001 Budget</u>	<u>To Complete</u>	<u>Total Program</u>
Subtotal Product Development	9,664	5,431	8,992	CONT.	CONT.
Subtotal Support and Management	0	0	0	0	0
Subtotal Test and Evaluation	0	0	0	0	0
Total Project	9,664	5,431	8,992	CONT.	CONT.

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PE/Project Cost Breakdown
(Exhibit R-3, page 6 of 6)

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